

MDRECEIVER

KMD-71/870R

SERVICE MANUAL

KENWOOD

© 1999-2 PRINTED IN JAPAN

B51-7458-00 (N) 3272

- This service manual does not include information on the MD mechanism assembly (exploded view, parts list, schematic diagram or mechanism description).
For such information, refer to the MD mechanism assembly manual (X92-3390-00, 0-01, X92-3560-00, X92-3580-00 : B51-7461-00).

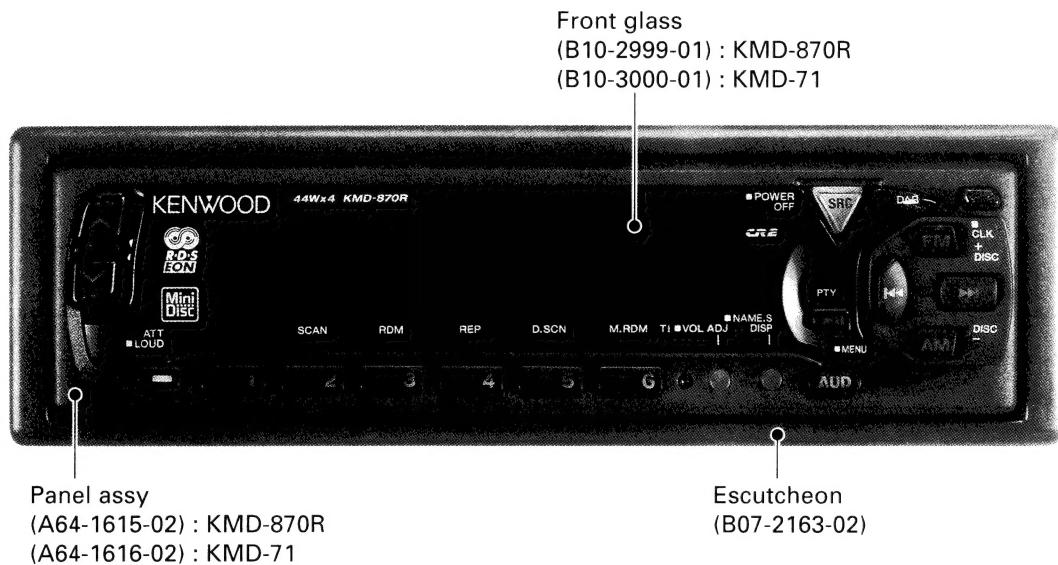
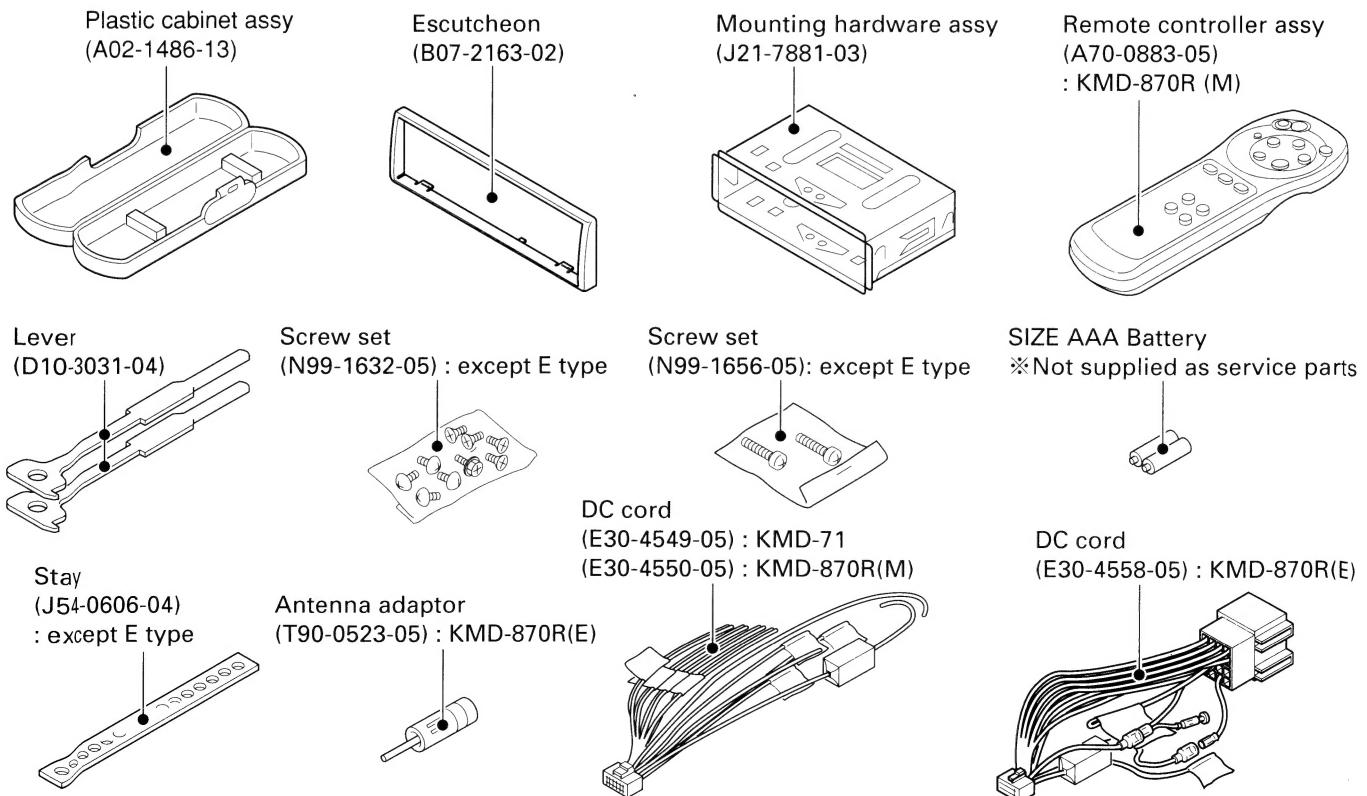


Photo is KMD-870R



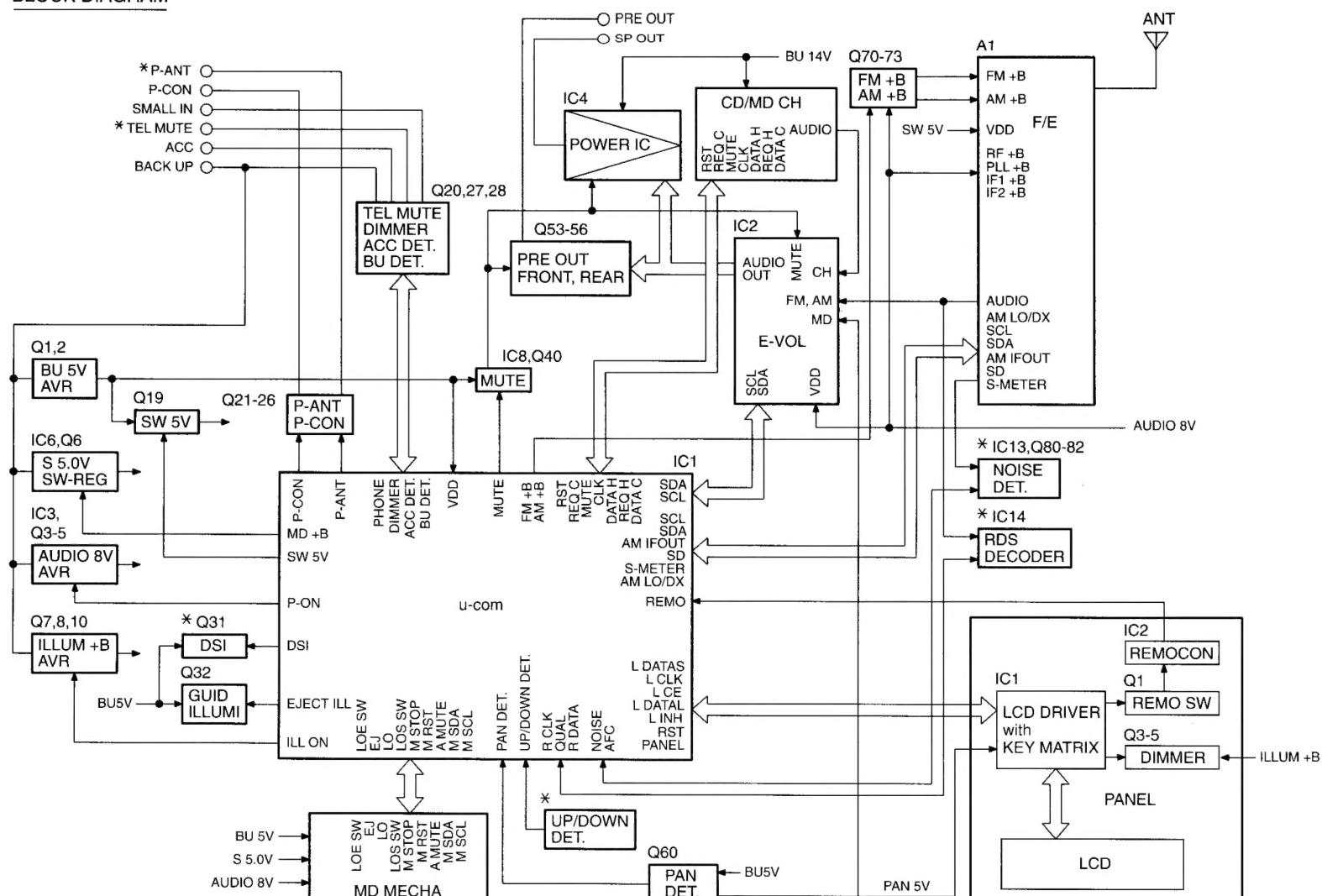
KMD-71/870R

CONTENTS

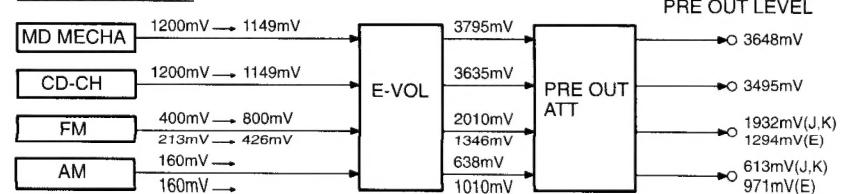
BLOCK DIAGRAM	3
CIRCUIT DESCRIPTION	4
PC BOARD	7
SCHEMATIC DIAGRAM	11
EXPLODED VIEW	17
PARTS LIST	19
SPECIFICATIONS	BACK COVER

KMD-71/870R

BLOCK DIAGRAM



LEVEL DIAGRAM



(X25-825x-xx)

MODEL NAME	UNIT No.	RDS DECODER	NOISE DET.	DSI	P-ANT	TEL MUTE	UP/DOWN DET.
RX-760MD (J)	0-00	NO	NO	NO	YES	NO	NO
KMD-71 (K)	0-11	YES	NO	YES	YES	NO	YES
KMD-870R (M,E)	2-71	YES	YES	YES	NO	YES	YES

KMD-71/870R

CIRCUIT DESCRIPTION

COMPONENT DESCRIPTION

SWITCH UNIT(X13-9430-12)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	LC75817W	LCD driver with key-matrix	
IC2	RS-171	Remote control light sensor	
Q1	DTA124EK	Remote sensor power SW	On at base "L"
Q2	DTA124EK	key-matrix permission SW	On at base "L"
Q3	2SC2412K	Dimmer SW	On at base "H"
Q4	2SD2114K	Illumination SW (Green)	On at base "H"
Q5	2SD2114K	Illumination SW (Amber)	On at base "H"
Q6	2SC2412K	LCD AVR	

ELECTRIC UNIT(X25-825X-XX)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	UPD784215GF536	System MI-COM.	
IC2	TDA7461ND	E-VOL&NC MAX	
IC3	M5237ML	AVR IC	
IC4	TDA7386	Power IC	
IC6	LM2575HVS-5.0	MD SERVO AVR	DC/DC Converter
IC7	PST9130NR	Reset IC	"L":detection voltage below 3.7V
IC8	TC74HC02AF	Mute logic	
IC13	NJM4565M-TE2	Noise detection amp	
IC14	TD7479D	RDS decoder	
Q1	2SC2412K	BU 5V AVR	inverted darlington connection
Q2	2SB1565F (E,F)		On during BU applied
Q3	DTA124EK	Audio 8V AVR	
Q4	DTC144EK		inverted darlington connection
Q5	2SB1565F (E,F)		AVR on at Q4 base "H"
Q6	DTC144EK	MD SERVO AVR ON/OFF	On at base "H"
Q7	DTC144EK	ILLmination AVR	
Q8	DTA124EK		ON at Q7 base "H"
Q10	2CD1760		
Q19	2SA1036K	SW 5V	On at base "L"
Q20	DTC144EK	DIMMER SW	On at base "H" while ILLUMINATION applied
Q21	2SB1277 (Q,R)	P-ANT SW	
Q22	DTC114YK		ON at Q22 base "H" during FM/AM reception
Q23	2SB1277 (Q,R)	P-CON SW	
Q26	DTC114YK		On at Q7 base "H"
Q24	2SA1037K	Protection for P-CON SW	
Q25	DTA124EK		Activates when the P-CON output voltage drops
Q27	2SC2412K	BU detection	"H" when momentary power down detected
Q28	2SC2412K	ACC detection	"H" during ACC off
Q31	2SC2412K	SDI driver	On at base "H"
Q32	2SC2412K	Eject iLLmination driver	On at base "H"
Q40	DTA124EK	Audio mute driver	Mute on at base "L"
Q41	DTC144EK	E-VOL mute SW	Mute on at base "H"
Q53-56	DTC143TK	Audio mute SW	Mute on at base "H"
Q57	DTC144EK	SVR SW	On at base "L" when power on, on at base "H" when momentary power down detected
Q60	2SA1037K	Panel open/close detection SW	On at base "L" during panel closed
Q61	DTA124EK	CH2 control SW	CH2 on at base "L"
Q70	DTC124EK	FM +B SW	
Q71	2SB1277 (Q,R)		On during FM reception
Q72	DTC124EK	AM +B SW	
Q73	2SB1277 (Q,R)		On during AM reception
Q75	2SC2412K	F/E audio buffer	
Q80	2SC2412K	Noise buffer	
Q81	DTC114TK	Noise detection time constant SW	
Q82	DTA124EK		Q81 base "L" during search,"H" during reception

KMD-71/870R

CIRCUIT DESCRIPTION

System U-com

Terminal Description

Pin No.	Pin Name	I/O	Function	Description	Processing Operation
1	P60/A16	I	TYPE0	Destination pin 0	
2	P61/A17	I	TYPE1	Destination pin 1	
3	P62/A18	O	NC		
4	P63/A19	O	CH RST	Changer reset output pin	Active: "H"
5	P64/RD	O	NC		
6	P65/WR	O	NC		
7	P66/WAIT	O	NC		
8	P67/ASTB	O	NC		
9	Vdd	-	Vdd	Positive power supply pin	
10	P100/TI5/T05	O	NC		
11	P101/TI6/T06	O	SVR	Power IC reset pin	Power on: "L", when momentary power down detected: "H"
12	P102/TI7/T07	O	NC		
13	P103/TI8/T08	O	P MUTE	Power IC mute pin	Active: "H"
14	P30/TO0	O	ANT CON	Antenna control pin	Active: "H"
15	P31/TO1	O	IC2 SCK	IC2,IC5 clock line	
16	P32/TO2	I	DIMMER	Small detection pin	Active: "L"
17	P33/TI1	O	P CON	Power control pin	Active: "H"
18	P34/TI2	I	ACC DET	ACC detection pin	ACC off: "H", ACC on: "L"
19	P35/TI00	I	REMO	Remote control input pin	
20	P36/TI01	O	P ON	Microprocessor peripheral power supply control pin	Active: "H"
21	P37	I	BU DET	BU detection pin	Momentary power down: "H"
22	TEST	-	TEST	Test pin	
23	P90	I/O	IC2 SDA	IC2,IC5 data line	
24	P91	O	MUTE	Mute pin	Active: "H"
25	P92	O	SW5	5V power supply control pin	Active: "L"
26	P93	I/O	M CLK	MD clock line	
27	P94	I/O	M DATA	MD data line	
28	P95	O	CHCON2	Changer 2 control pin	Active: "L"
29	P120/RTP0	O	CHCON1	Changer 1 control pin	Active: "H"
30	P121/RTP1	I	CH MUTE	Changer mute input pin	Mute request: "H"
31	P122/RTP2	O	REQH	Changer handshake request pin	Active: "L"
32	P123/RTP3	O	ILL ON	Illumination output pin	Active: "H"
33	P124/RTP4	O	DSI	DSI output pin	Active: "H"
34	P125/RTP5	O	NC		
35	P126/RTP6	O	NC		
36	P127/RTP7	O	MD+B	MD power supply control pin	Active: "H"
37	Vdd	-	Vdd	Positive power supply pin	
38	X2	-	X2	Main clock connection pin	
39	X1	-	X1	Main clock connection pin	
40	Vss	-	Vss	GND pin	
41	XT2	-	XT2	Sub clock connection pin	
42	XT1	-	XT1	Sub clock connection pin	
43	RESET	I	RESET	Reset input pin	Active: "L"
44	P00/INTP0	O	NC	Changer reset output pin	
45	P01/INTP1	I	R CLK	RDS clock input pin	
46	P02/INTP2/NMI	I	REQC	Changer handshake request pin	Active: "L"
47	P03/INTP3	I	EJECT	Eject SW input pin	Active: "L"
48	P04/INTP4	O	NC		
49	P05/INTP5	I	LOS SW	MD insert detection pin	Active: "L"
50	P06/INTP6	O	NC		

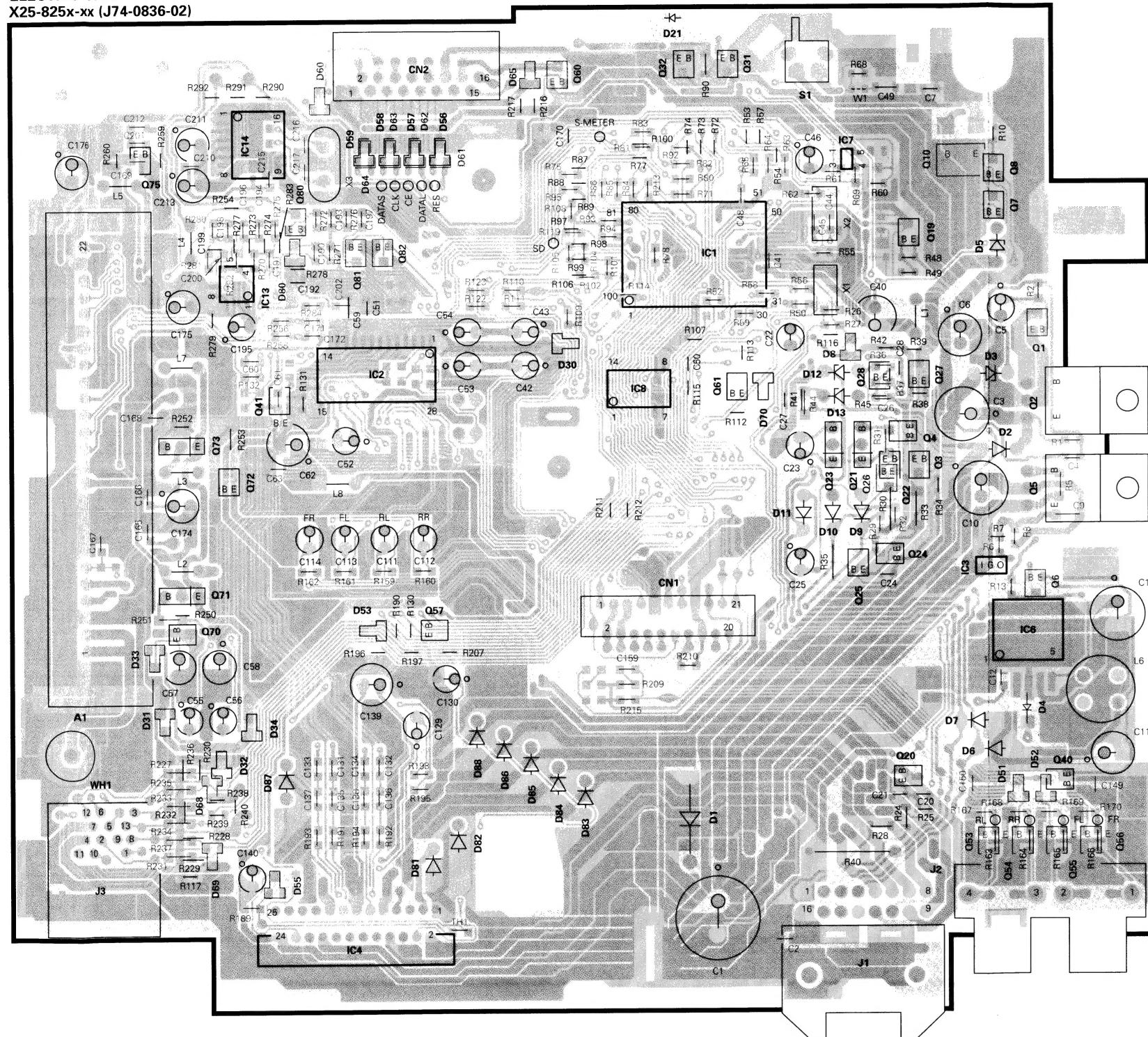
KMD-71/870R

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Function	Description	Processing Operation
51	AVdd	-	AVdd	A/D analog power supply pin	
52	AVref0	-	AVref0	A/D reference voltage input pin	
53	P10/ANI0	I	PHONE	PHONE detection pin	1V or less: PHONE, 2.5V or greater: NAVI MUTE
54	P11/ANI1	I	NC		
55	P12/ANI2	I	NOISE	FM noise detection pin	
56	P13/ANI3	I	S METER	FM S meter detection pin	
57	P14/ANI4	I	NC		
58	P15/ANI5	I	NC		
59	P16/ANI6	I	OPEN/CLOSE DET	Tilt-able panel detaching detection pin	Panel detached: "H"
60	P17/ANI7	I	M MUTE	MD mute request pin	Active: "L"
61	Avss	-	Avss	A/D GND pin	
62	P130/ANO0	O	NC		
63	P131/ANO1	O	M RST	MD reset output pin	Active: "L"
64	AVref1	-	AVref1	D/A reference voltage input pin	
65	P70/RxD2/SI2	I	DATAC	Data line from changers	
66	P71/TxD2/SO2	O	DATAH	Data line to changers	
67	P72/ASCK2/SCK2	I/O	CH CLK	Clock line with changers	
68	P20/RxD1/SI1	I	L DATAL	Data line from LCD driver	
69	P21/TxD1/SO1	O	L DATAS	Data line to LCD driver	
70	P22/ASCK1/SCK1	O	L CLK	Clock line to LCD driver	
71	P23/PCL	O	M STOP	MD stop request output pin	Stop requested: "L"
72	P24/BUZ	O	BEEP	BEEP output pin	Active: "H"
73	P25/SI0/SDA0	I/O	IC3 SDA	Data line with PLL	
74	P26/SO0	O	NC		
75	P27/SCK0/SCL0	O	IC3 SCK	Clock output to PLL	
76	P80/A0	I	LOE SW	MD pack in detection pin	Active: "L"
77	P81/A1	O	EJECT	MD eject	Active: "H"
78	P82/A2	O	LOAD	MD loading	Active: "H"
79	P83/A3	O	L INH	Reset output to LCD driver	Active: "L"
80	P84/A4	O	L CE	CE output to LCD driver	
81	P85/A5	I	PANEL	Panel tilting detection pin	Panel tilted: "H"
82	P86/A6	O	EJECT ILL	Eject illumination output pin	Active: "H"
83	P87/A7	O	NC		
84	P40/AD0	I	QUAL	RDS receiving condition input pin	
85	P41/AD1	I	R DATA	RDS data input pin	
86	P42/AD2	O	NC		
87	P43/AD3	O	NC		
88	P44/AD4	I	SD	SD input pin (FM/AM)	Station detected: "H", not detected: "L"
89	P45/AD5	I	IF COUNT	AM IF count input pin	Station detected: "H"
90	P46/AD6	O	NC		
91	P47/AD7	O	NC		
92	P50/A8	O	AFC	Noise detection time constant switching pin	During reception: "H", during search: "L"
93	P51/A9	O	NC		
94	P52/A10	O	NC		
95	P53/A11	O	LO/DX	LOCAL output pin	LOCAL: "H", normal: "L"
96	P54/A12	O	AM+B	AM power supply control pin	During AM reception: "H"
97	P55/A13	O	FM+B	FM power supply control pin	During FM reception: "H"
98	P56/A14	I	ST TYPE0	IC2 Ver.2 destination type pin 0	Initial value: "L"
99	P57/A15	I	ST TYPE1	IC2 Ver.2 destination type pin 1	Initial value: "L"
100	Vss	-	Vss	GND pin	

PC BOARD (COMPONENT SIDE VIEW)

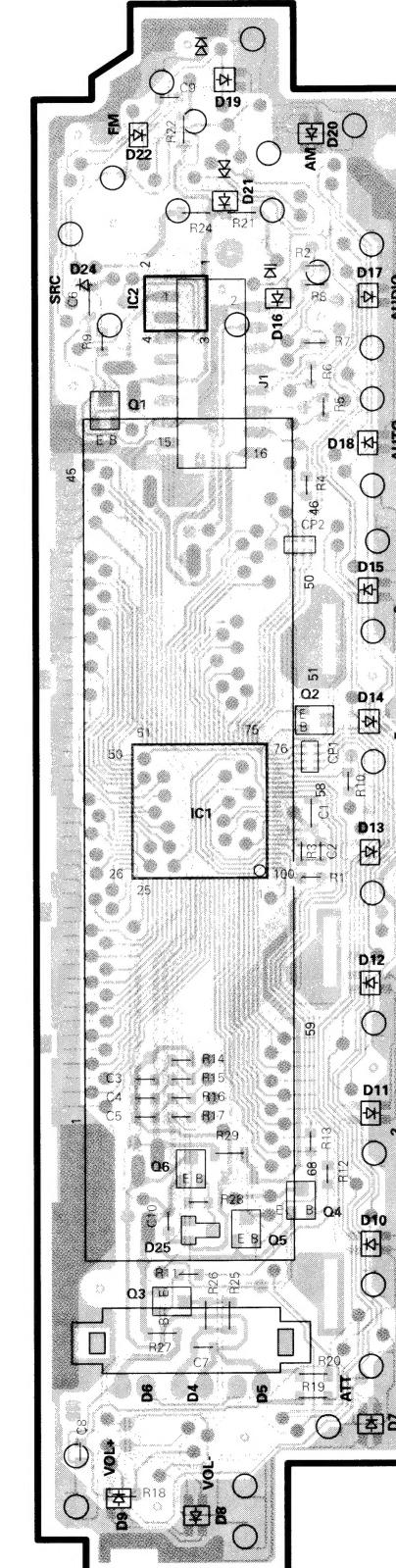
ELECTRIC UNIT
X25-825x-xx (J74-0836-02)



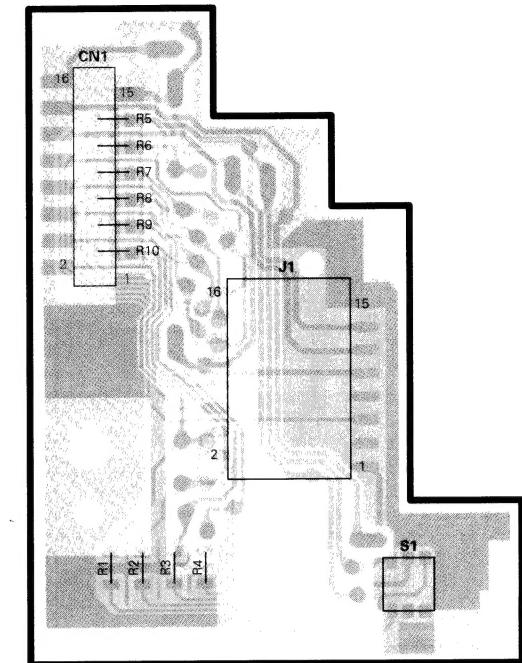
X25-825X-XX

IC	1	2	3	4	6	7	8	13	14
address	3D	3C	4E	6B	4F	2E	3D	3B	2B
Q	1	2	3	4	5	6	7	8	10
address	3F	3F	4E	3E	4F	4F	2F	2F	2E
	31	32	40	41	53	54	55	56	60
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	5E
	32	33	41	53	54	55	56	57	61
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	70
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	71
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	72
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	73
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	74
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	75
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	76
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	77
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	78
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	79
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	80
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	81
	2D	2D	5F	3B	5E	5F	5F	4C	2D
address	3E	3E	4F	4F	2F	2F	2E	2E	4E
	32	33	41	53	54	55	56	57	82
	2D	2D	5F	3B	5E	5F	5F	4C	2D

X13-943x-xx (J74-0832-02)



X89-2282-72
(J74-0720-22)

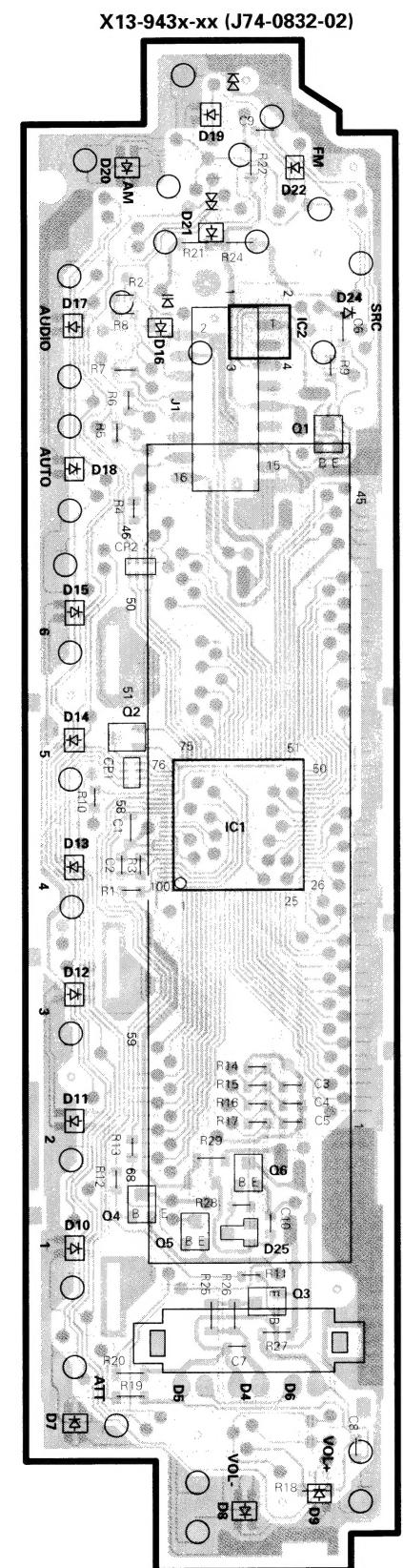
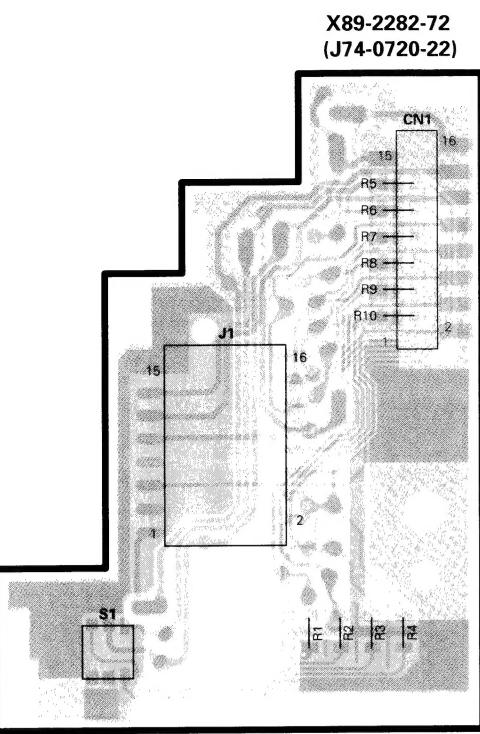


X13-9430-12

IC	Q	address
1		4G
2		2G
	1	3G
	2	4H
	3	6G
	4	5H
	5	6G
	6	5G

Refer to the schematic diagram for the values of resistors and capacitors.

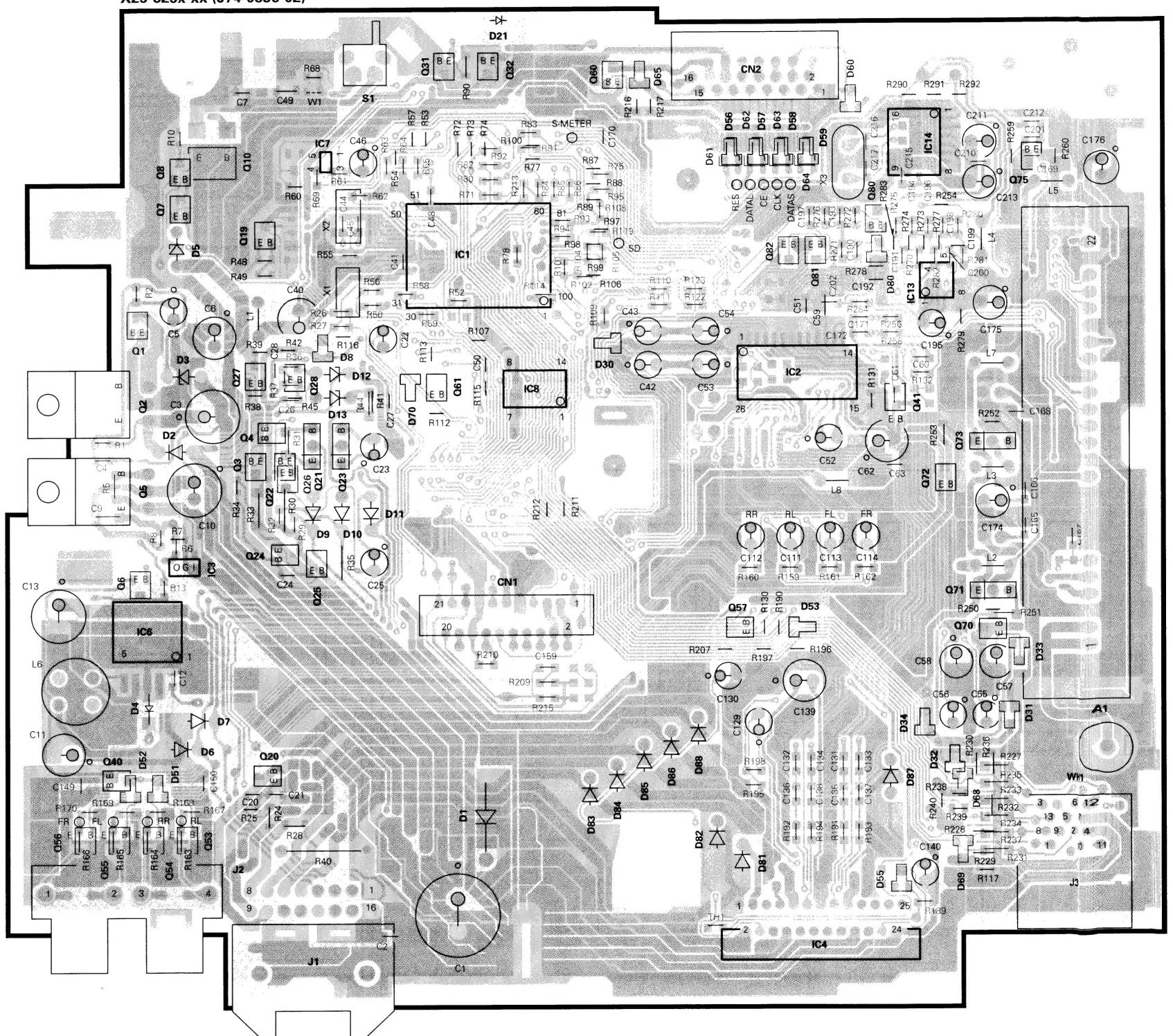
PC BOARD (FOIL SIDE VIEW)



X13-9430-12

IC	Q	address
1		4N
2	1	2N
	2	3N
3		4M
4		6N
5		5M
6		5N

ELECTRIC UNIT
X25-825x-xx (J74-0836-02)



X25-825X-XX

IC	1	2	3	4	6	7	8
address	3Q	3R	4P	6S	4O	2P	3Q
Q	1	2	3	4	5	6	
address	3O	3O	4P	3P	4O	4O	
	31	32	40	41	53	54	
	2Q	2Q	5O	3S	5P	5O	
					5O	5O	
					4R	2Q	
						4S	
						4S	
						2T	
						3S	
							3R

Refer to the schematic diagram for the values of resistors and capacitors.

A

B

C

D

E

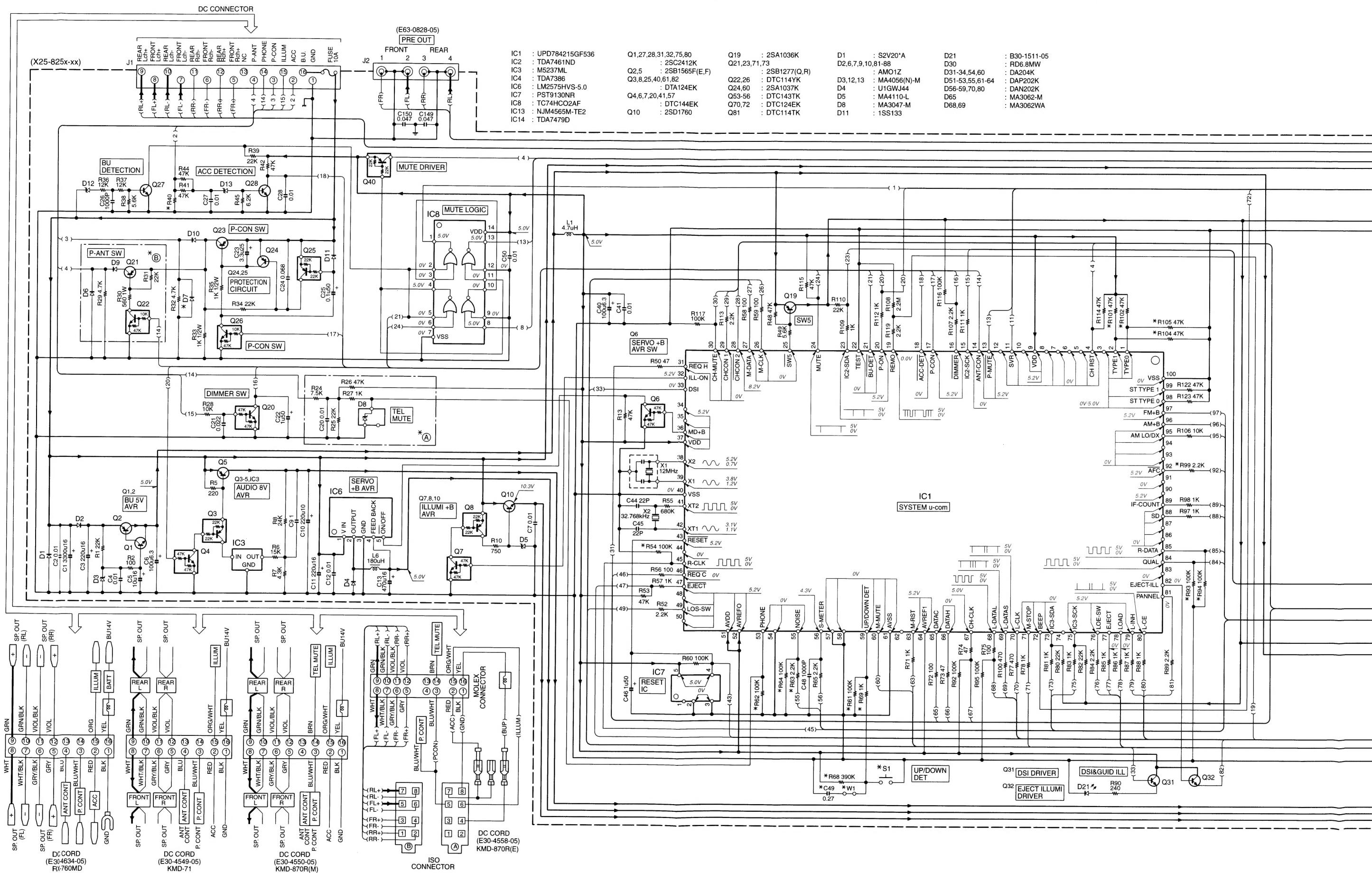
F

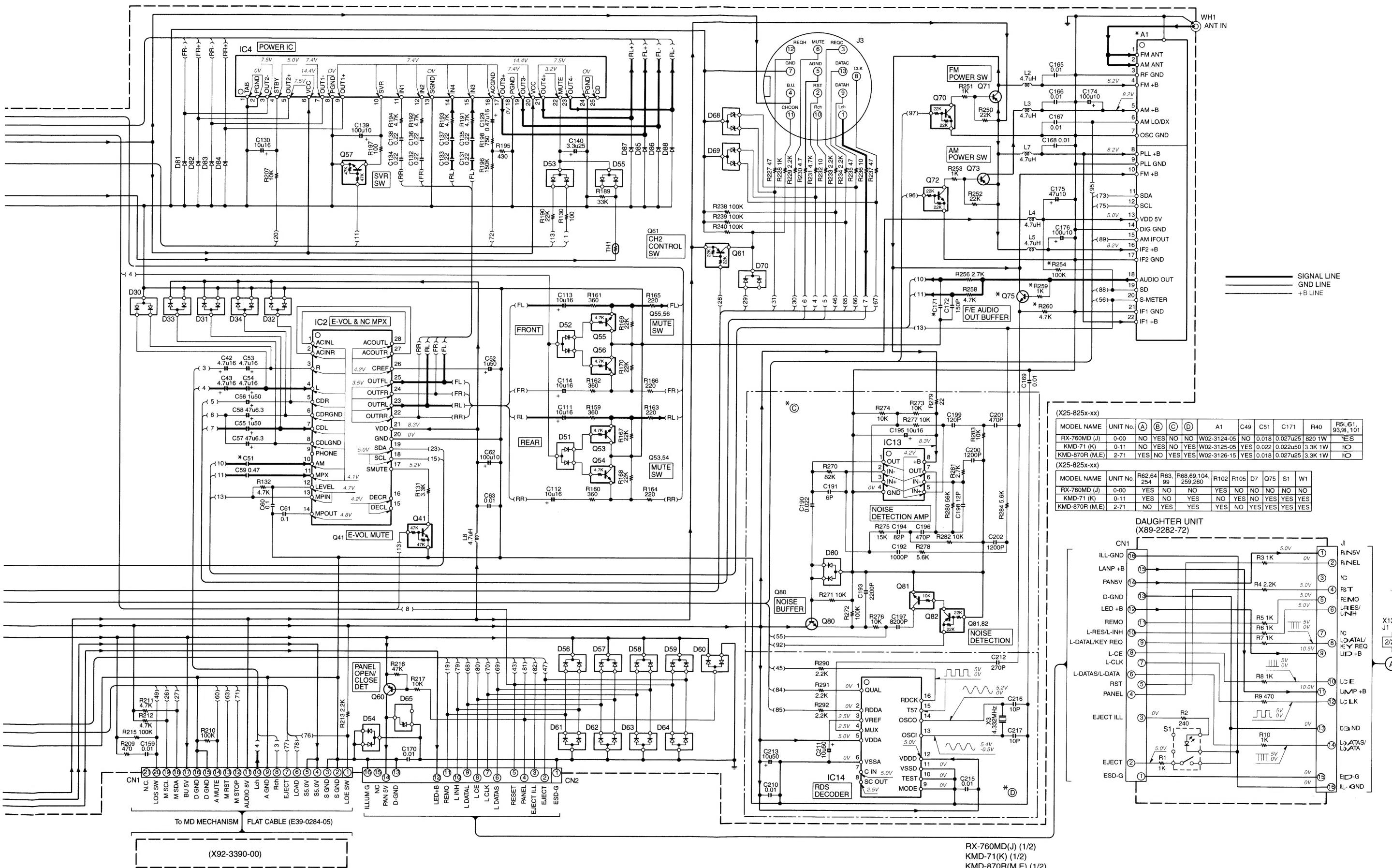
G

H

I

J





CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KMD-71/870R

KENWOOD

U V W X Y Z AA AB AC AD

1

2

3

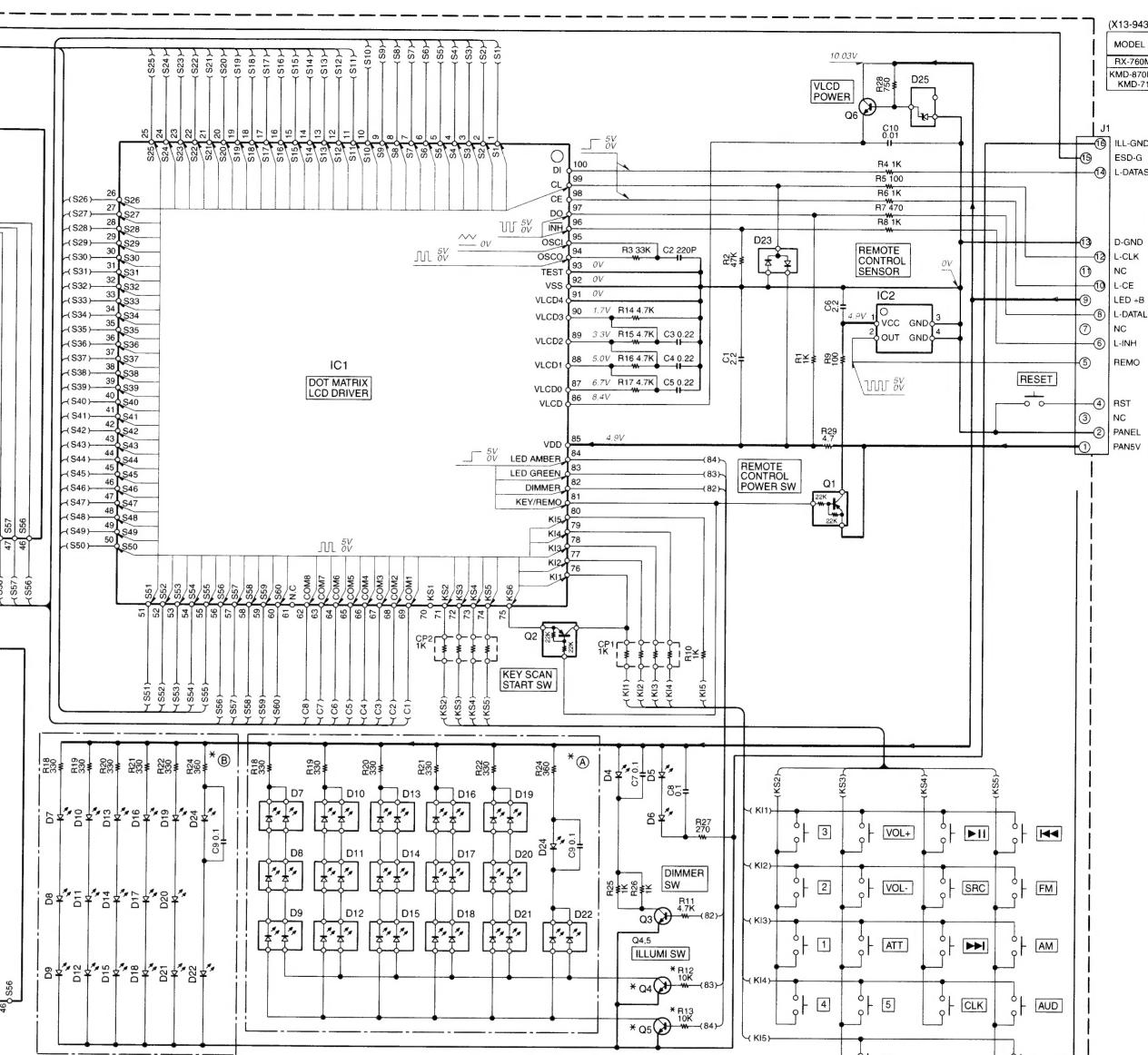
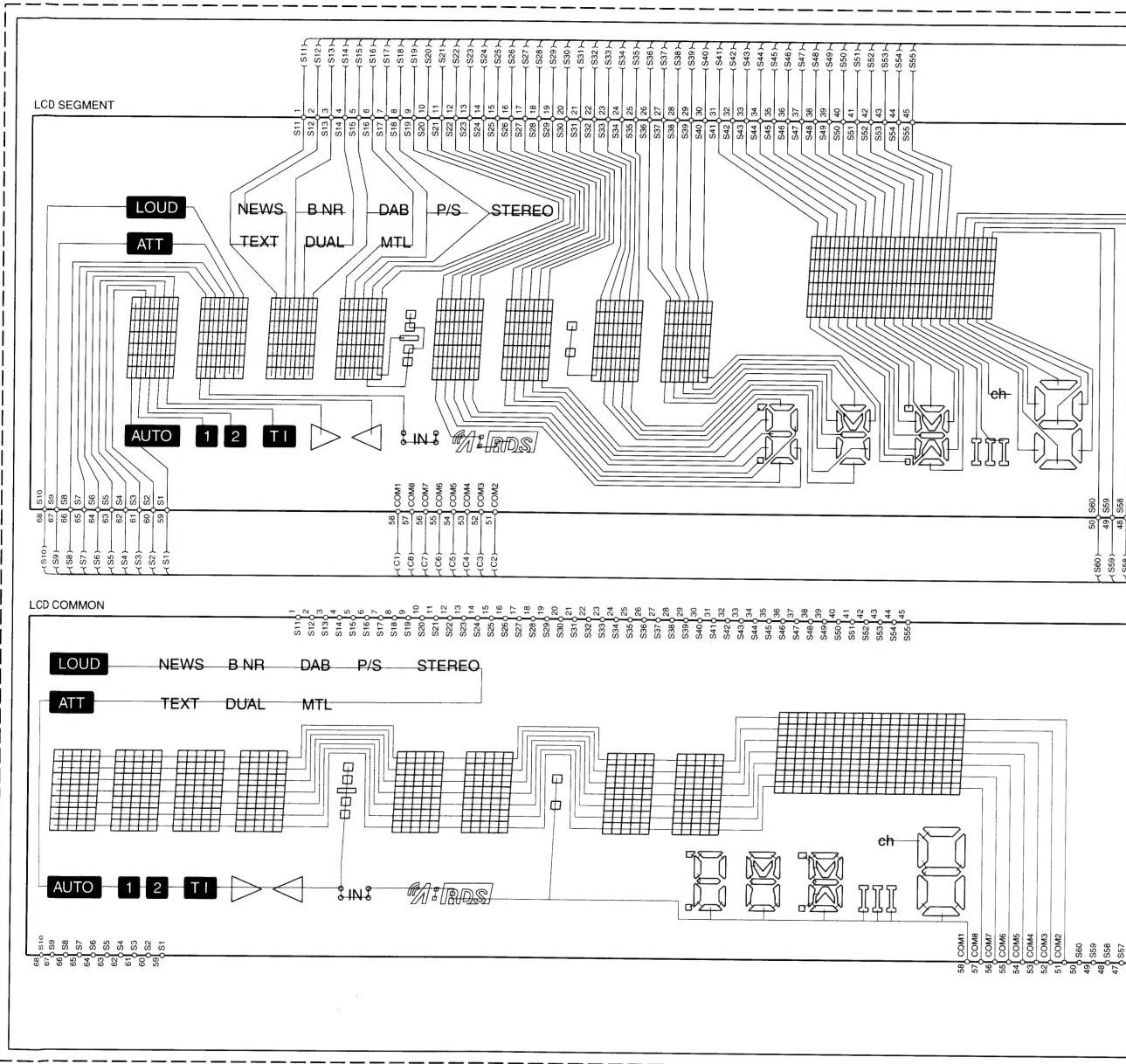
4

5

6

7

SWITCH UNIT (X13-9430-xx)



MODEL NAME	UNIT No.	(A)	(B)	Q4.5	R12-13
RX-760MD(J)	0-00	NO	B30-2025-05	NO	YES

IC1 : LC75817W
IC2 : RS-171

Q1.2 : DTA124EK
Q3.6 : 2SC2412K
Q4.5 : 2SD2114K

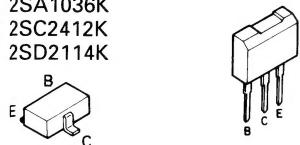
D4.6 : B30-1542-05
D7.22 : B30-1348-05 or
D23 : DA204K
D24 : B30-1545-05
D25 : MA3091-M

GND LINE
+B LINE

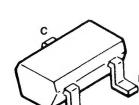
RX-760MD(J) (2/2)
KMD-870R(M,E)/71(K) (2/2)

DTA124EK
DTC114TK
DTC114YK
DTC124EK
DTC143TK

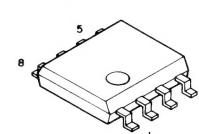
2SB1277



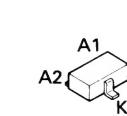
2SA1037K



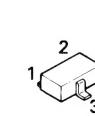
NJM4565M-TE2



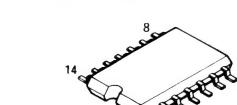
DAN202K



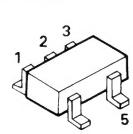
DA204K



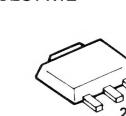
TC74HC02AF



PST9130NR



M5237ML



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

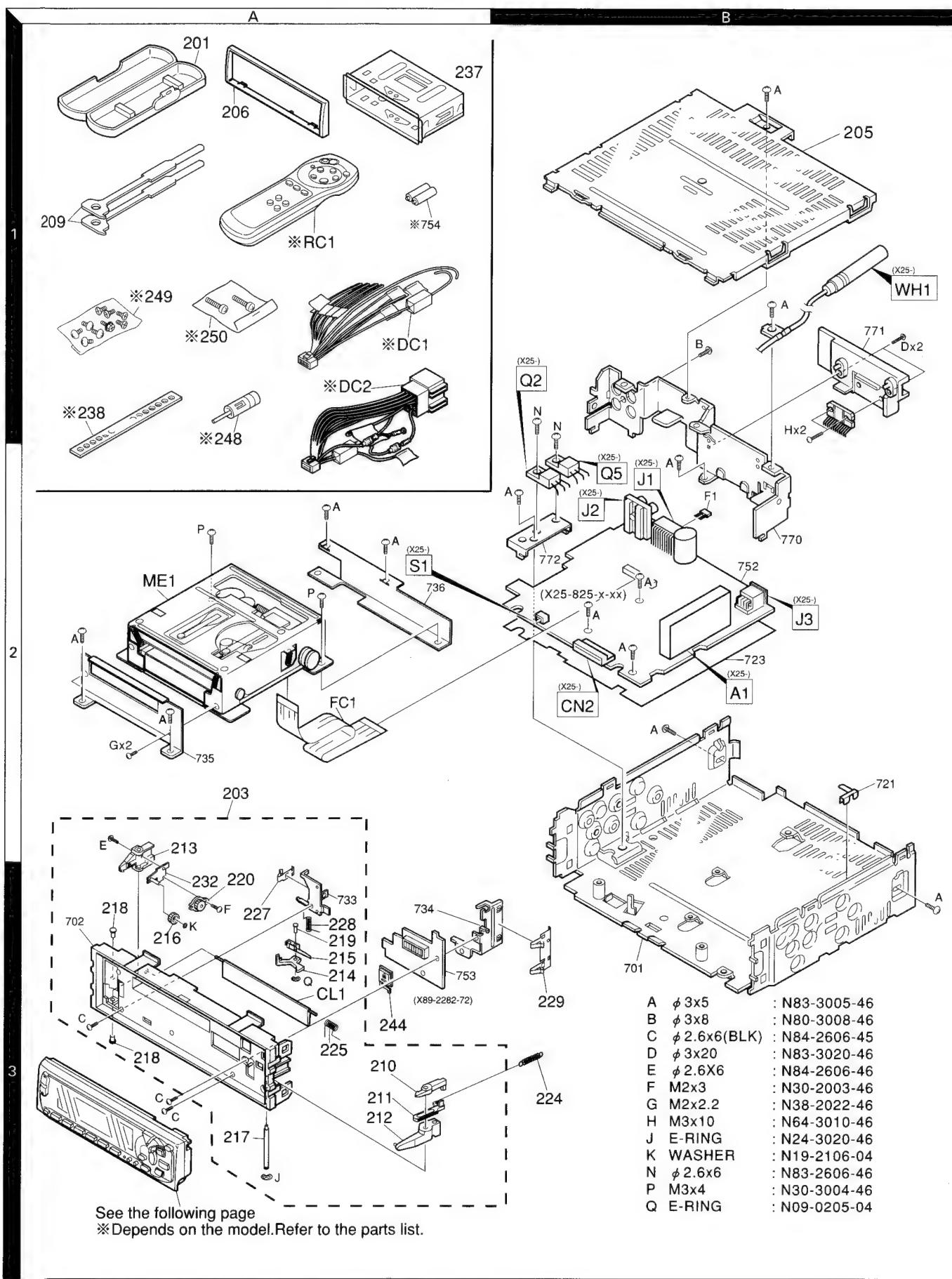
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KMD-71/870R
KENWOOD

KMD-71/870R

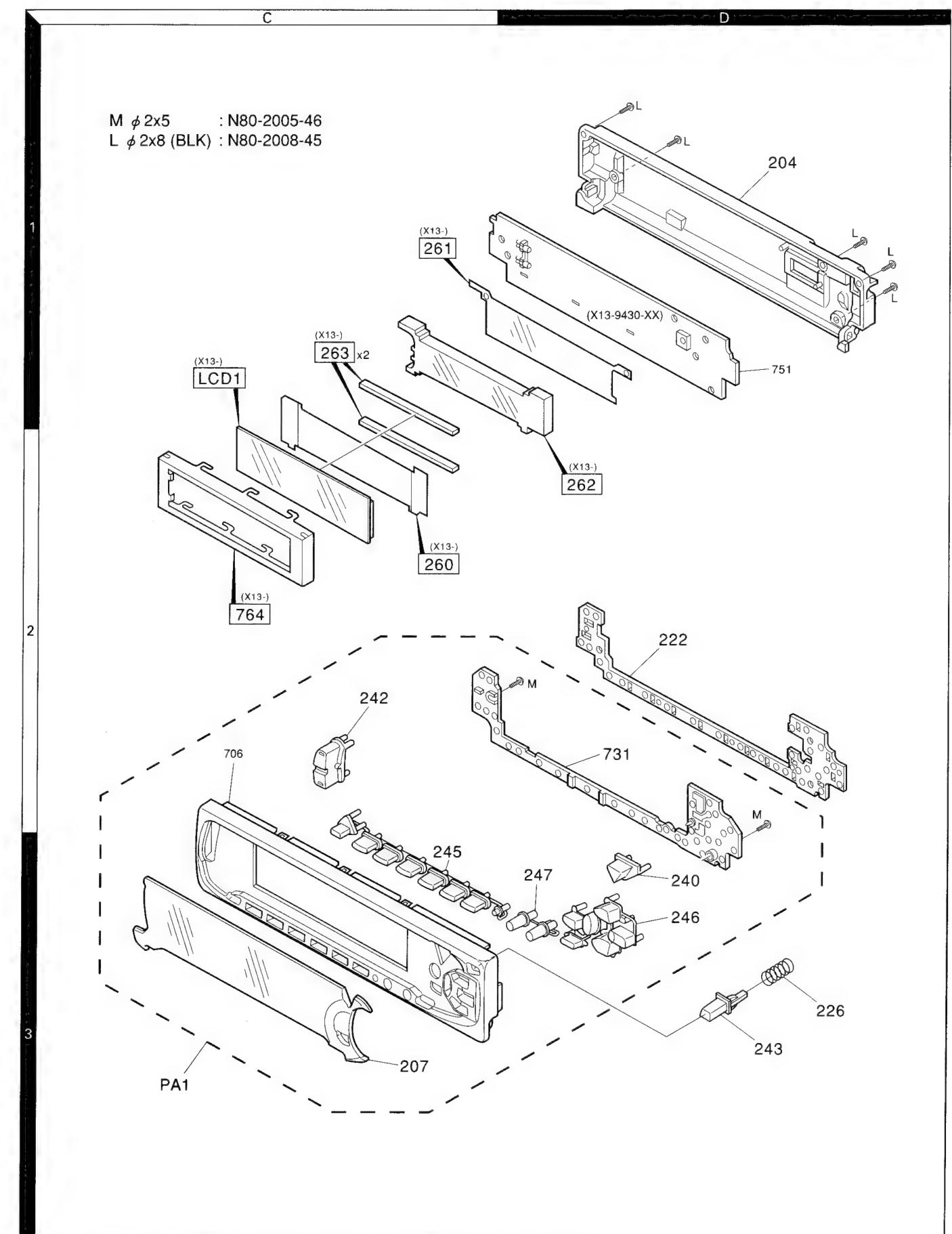
EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

KMD-71/870R

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied

KMD-71/870R

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Desti nation
KMD-71, KMD-870R					
201	1A	*	A02-1486-13	PLASTIC CABINET ASSY	
203	2A	*	A22-2308-22	SUB PANEL ASSY	
204	1D		A46-1601-11	REAR COVER	
205	1B	*	A52-0724-32	TOP PLATE	
CL1	3A	*	A53-1665-03	CASSETTE LID	
PA1	3C	*	A64-1615-02	PANEL ASSY	E1M1
PA1	3C	*	A64-1616-02	PANEL ASSY	K1
RC1	1A		A70-0883-05	REMOTE CONTROLLER ASSY	M1
206	1A		B07-2163-02	ESCUTCHEON	
207	3C	*	B10-2999-01	FRONT GLASS	E1M1
207	3C	*	B10-3000-01	FRONT GLASS	K1
-			B46-0100-50	WARRANTY CARD	
-			B46-0172-13	QUESTIONNAIRE CARD	K1
-			B46-0182-14	ID CARD	E1
-			B46-0606-04	ID CARD	M1K1
-			B58-1319-04	CAUTION CARD	E1
-		*	B64-1305-00	INST.MANUAL(ENG,FRE)	E1
-		*	B64-1306-00	INST.MANUAL(GER,DUT)	E1
-		*	B64-1307-00	INST.MANUAL(ITA,SPA)	E1
-		*	B64-1308-00	INST.MANUAL(PORTUGUESE)	E1
-		*	B64-1309-00	INST.MANUAL(ENG,CHI)	M1
-		*	B64-1310-00	INST.MANUAL(ENG,FRE)	K1
-		*	B64-1311-00	INST.MANUAL(SPA,POR)	K1
209	1A		D10-3031-04	LEVER	
210	3A		D10-4141-04	LEVER	
211	3A		D10-4142-44	LEVER	
212	3A		D10-4143-14	LEVER	
213	2A		D10-4144-13	LEVER	
214	3A		D10-4303-03	LEVER	
215	3A		D10-4304-03	LEVER	
216	3A		D13-1352-04	GEAR	
217	3A		D21-2272-04	SHAFT	
218	3A		D21-2273-04	SHAFT	
219	3A		D21-2299-04	SHAFT	
220	3A		D39-0237-05	DAMPER	
△ DC1	2D		E29-1570-02	CONDUCTIVE RUBBER	
△ DC1	1A		E30-4549-05	DC CORD	K1
△ DC2	1A		E30-4550-05	DC CORD	M1
FC1	2A	*	E30-4558-05	DC CORD	E1
△ F1	28		E39-0284-05	FLAT CABLE	
224	3B		G01-2856-24	EXTENSION SPRING	
225	3A	*	G01-2926-14	TORSION COIL SPRING	
226	3D		G01-2921-04	COMPRESSION SPRING	
227	3A		G02-1257-14	FLAT SPRING	
228	3A		G01-2923-04	TORSION COIL SPRING	
229	3B		G02-1259-14	FLAT SPRING	
-		*	H10-4660-02	POLYSTYRENE FOAMED FIXTURE	
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	M1K1
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-			H25-1111-04	PROTECTION BAG (280X450X0.03)	E1

KMD-71/870R

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

KMD-71, KMD-870R
SWITCH UNIT (X13-9430-12)

Ref. No.	A d d	N e w	Parts No.	Description	Desti nation
KMD-71, KMD-870R					
-		*	H54-1300-13	ITEM CARTON CASE	E1
-		*	H54-1301-13	ITEM CARTON CASE	M1
-		*	H54-1302-13	ITEM CARTON CASE	K1
232	3A		J21-7817-14	MOUNTING HARDWARE ASSY	
237	1A		J21-7881-03	MOUNTING HARDWARE ASSY	
238	1A		J54-0606-04	STAY	M1K1
240	3D		K24-1921-04	KNOB(SRC)	
242	2C		K24-1922-03	KNOB(VOL)	
243	3D		K24-1923-14	KNOB(RELEASE)	
244	3A		K24-1947-14	KNOB(EJECT)	
245	3C		K25-0960-03	KNOB(ATT,P1-6)	
246	3D		K25-0961-02	KNOB(FM,AM,UP,DWN,PLY,PAU,AUD)	
247	3D		K25-0962-04	KNOB(AUTO/TI,DISP)	
249	1A		N99-1632-05	SCREW SET	M1K1
250	1A		N99-1656-05	SCREW SET	M1K1
A	1B		N83-3005-46	PAN HEAD TAPPIE SCREW	
C	3A		N84-2606-45	PAN HEAD TAPPIE SCREW	
E	2A		N84-2606-46	PAN HEAD TAPPIE SCREW	
F	3A		N30-2003-46	PAN HEAD MACHINE SCREW	
G	2A		N38-2022-46	PAN HEAD MACHIN SCREW	
J	3A		N24-3020-46	E TYPE RETAINING RING(27L)	
K	3A		N19-2106-04	FLAT WASHER	
L	1D		N80-2008-45	PAN HEAD TAPPIE SCREW	
M	2D		N80-2005-46	PAN HEAD TAPPIE SCREW	
P	2A		N30-3004-46	PAN HEAD MACHINE SCREW	
Q	3A		N29-0205-04	RETAINING RING (1.57L)	
248	1A		T90-0523-05	ANTENNA ADAPTOR	E1
ME1	2A	*	X92-3390-00	MECHANISM ASSY	
SWITCH UNIT (X13-9430-12)					
260	2C		B11-0978-04	OPTICAL DIFFUSER	
261	1C		B11-0981-04	REFLECTION SHEET	
262	2D		B19-1163-23	LIGHTING BOARD	
D4 - 6			B30-1542-05	LED	
D7 - 22			B30-1349-05	LED	
D24	1C		B30-1545-05	LED(BLUE)	
LCD1			B38-1007-05	LIQUID CRYSTAL	
C1			CK73EB1C225K	CHIP C 2.2UF K	
C2			CK73FB1H221K	CHIP C 220PF K	
C3 - 5			CK73FB1C224K	CHIP C 0.22UF K	
C6			CK73EB1C225K	CHIP C 2.2UF K	
C7 - 9			CK73FB1C104K	CHIP C 0.10UF K	
C10	1C		CK73FB1H103K	CHIP C 0.010UF K	
263	1C		E29-1543-04	CONDUCTIVE RUBBER	
J1			E59-0829-05	RECTANGULAR PLUG	
CP1 ,2			R90-0724-05	MULTI-COMP 1K X4	
R1			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R2			RK73FB2A473J	CHIP R 47K J 1/10W	
R3			RK73FB2A333J	CHIP R 33K J 1/10W	
R4			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R5			RK73FB2A101J	CHIP R 100 J 1/10W	

SWITCH UNIT (X13-9430-12)
ELECTRIC UNIT (X25-825X-XX)

Ref. No.	A d d	N e w	Parts No.	Description	Desti nation
ELECTRIC UNIT (X25-825X-XX)					
R6			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R7			RK73FB2A471J	CHIP R 470 J 1/10W	
R8			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R9			RK73FB2A101J	CHIP R 100 J 1/10W	
R10			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R11			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R12 ,13			RK73FB2A103J	CHIP R 10K J 1/10W	
R14 - 17			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R18 - 22			RK73EB2B331J	CHIP R 330 J 1/8W	
R24			RK73EB2B361J	CHIP R 360 J 1/8W	
R25 ,26			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R27			RK73EB2B271J	CHIP R 270 J 1/8W	
R28					

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

ELECTRIC UNIT (X25-825X-XX)

Ref. No.	A d d	N e w	Parts No.	Description	Dest inat ion	Ref. No.	A d d	N e w	Parts No.	Description	Dest inat ion
X3			L77-2002-05	RESONATOR (4.332MHZ)		R77			RK73FB2A471J	CHIP R 470	J 1/10W
A	1B		N83-3005-46	PAN HEAD TAPITITE SCREW		R78			RK73FB2A102J	CHIP R 1.0K	J 1/10W
B	1B		N80-3008-46	PAN HEAD TAPITITE SCREW		R80			RK73FB2A223J	CHIP R 22K	J 1/10W
D	1B		N83-3020-46	PAN HEAD TAPITITE SCREW		R81			RK73FB2A102J	CHIP R 1.0K	J 1/10W
H	1B		N64-3010-46	PAN HEAD SEMS SCREW		R82			RK73FB2A223J	CHIP R 22K	J 1/10W
N	2B		N83-2606-46	PAN HEAD TAPITITE SCREW		R83			RK73FB2A102J	CHIP R 1.0K	J 1/10W
R1			RK73FB2A223J	CHIP R 22K	J 1/10W	R84			RK73FB2A222J	CHIP R 2.2K	J 1/10W
R2			RK73FB2A101J	CHIP R 100	J 1/10W	R85 -88			RK73FB2A102J	CHIP R 1.0K	J 1/10W
R5			RK73EB2B221J	CHIP R 220	J 1/8W	R89			RK73FB2A222J	CHIP R 2.2K	J 1/10W
R6			RK73FB2A153J	CHIP R 15K	J 1/10W	R90			RK73EB2B241J	CHIP R 240	J 1/8W
R7			R92-3032-05	CHIP R 4.3K	D 1/10W	R92			RK73FB2A104J	CHIP R 100K	J 1/10W
R8			R92-3047-05	CHIP R 24K	D 1/10W	R95			RK73FB2A104J	CHIP R 100K	J 1/10W
R10			RK73FB2A751J	CHIP R 750	J 1/10W	R97 ,98			RK73FB2A102J	CHIP R 1.0K	J 1/10W
R13			RK73FB2A473J	CHIP R 47K	J 1/10W	R99			RK73FB2A222J	CHIP R 2.2K	J 1/10W
R24			RK73EB2B752J	CHIP R 7.5K	J 1/8W	R100			RK73FB2A471J	CHIP R 470	J 1/10W
R25			RK73FB2A223J	CHIP R 22K	J 1/10W	E1M1			RK73FB2A473J	CHIP R 47K	J 1/10W
R26			RK73FB2A473J	CHIP R 47K	J 1/10W	E1M1			RK73FB2A473J	CHIP R 47K	J 1/10W
R27			RK73FB2A102J	CHIP R 1.0K	J 1/10W	E1M1			RK73FB2A473J	CHIP R 47K	J 1/10W
R28			RK73EB2B103J	CHIP R 10K	J 1/8W	K1			RK73FB2A103J	CHIP R 47K	J 1/10W
R29			RK73FB2A472J	CHIP R 4.7K	J 1/10W	K1			RK73FB2A222J	CHIP R 10K	J 1/10W
R30			R92-0366-05	CHIP R 560	J 1W	K1			RK73FB2A225J	CHIP R 2.2K	J 1/10W
R31			RK73EB2B223J	CHIP R 22K	J 1/8W	K1			RK73FB2A102J	CHIP R 1.0K	J 1/10W
R32			RK73FB2A472J	CHIP R 4.7K	J 1/10W	R104			RK73FB2A223J	CHIP R 22K	J 1/10W
R33			R92-0365-05	CHIP R 1.0K	J 1/2W	R105			RK73FB2A102J	CHIP R 1.0K	J 1/10W
R34			RK73FB2A223J	CHIP R 22K	J 1/10W	R106			RK73FB2A222J	CHIP R 2.2K	J 1/10W
R35			R92-0365-05	CHIP R 1.0K	J 1/2W	R107			RK73FB2A225J	CHIP R 2.2M	J 1/10W
R36 ,37			RK73FB2A123J	CHIP R 12K	J 1/10W	R108			RK73FB2A102J	CHIP R 1.0K	J 1/10W
R38			RK73FB2A562J	CHIP R 5.6K	J 1/10W	R109			RK73FB2A223J	CHIP R 22K	J 1/10W
R39			RK73FB2A223J	CHIP R 22K	J 1/10W	R110			RK73FB2A102J	CHIP R 1.0K	J 1/10W
R40			RS14DB3A332J	FL-PROOF RS 3.3K	J 1W	R111,112			RK73FB2A222J	CHIP R 2.2K	J 1/10W
R41			RK73EB2B473J	CHIP R 47K	J 1/8W	R113			RK73FB2A101J	CHIP R 100	J 1/10W
R42			RK73FB2A473J	CHIP R 47K	J 1/10W	R114,115			RK73FB2A473J	CHIP R 47K	J 1/10W
R44			RK73EB2B473J	CHIP R 47K	J 1/8W	R116,117			RK73FB2A104J	CHIP R 100K	J 1/10W
R45			RK73FB2A622J	CHIP R 6.2K	J 1/10W	R122,123			RK73FB2A222J	CHIP R 2.2K	J 1/10W
R48			RK73FB2A473J	CHIP R 47K	J 1/10W	R130			RK73FB2A473J	CHIP R 47K	J 1/10W
R49			RK73FB2A562J	CHIP R 5.6K	J 1/10W	R131			RK73FB2A101J	CHIP R 100	J 1/10W
R42			RK73FB2A473J	CHIP R 47K	J 1/10W	R132			RK73FB2A332J	CHIP R 3.3K	J 1/10W
R44			RK73EB2B473J	CHIP R 47K	J 1/8W	R159-162			RK73FB2A472J	CHIP R 4.7K	J 1/10W
R45			RK73FB2A622J	CHIP R 6.2K	J 1/10W	R163-166			RK73FB2A361J	CHIP R 360	J 1/10W
R48			RK73FB2A473J	CHIP R 47K	J 1/10W	R167-170			RK73EB2B221J	CHIP R 220	J 1/8W
R49			RK73FB2A562J	CHIP R 5.6K	J 1/10W	R189			RK73FB2A223J	CHIP R 22K	J 1/10W
R50			RK73FB2A470J	CHIP R 47	J 1/10W	R191-194			RK73FB2A333J	CHIP R 33K	J 1/10W
R52			RK73FB2A222J	CHIP R 2.2K	J 1/10W	R195			RK73FB2A223J	CHIP R 22K	J 1/10W
R53			RK73FB2A473J	CHIP R 47K	J 1/10W	R196			RK73FB2A472J	CHIP R 4.7K	J 1/10W
R55			RK73FB2A684J	CHIP R 680K	J 1/10W	R197			RK73FB2A431J	CHIP R 430	J 1/10W
R56			RK73FB2A101J	CHIP R 100	J 1/10W	R198			RK73FB2A154J	CHIP R 150K	J 1/10W
R57			RK73FB2A102J	CHIP R 1.0K	J 1/10W	R207			RK73FB2A101J	CHIP R 100	J 1/10W
R58 ,59			RK73FB2A101J	CHIP R 100	J 1/10W	R209			RK73FB2A751J	CHIP R 750	J 1/10W
R60			RK73FB2A104J	CHIP R 100K	J 1/10W	R210			RK73FB2A103J	CHIP R 10K	J 1/10W
R62			RK73FB2A104J	CHIP R 100K	J 1/10W	E1M1			RK73FB2A471J	CHIP R 470	J 1/10W
R63			RK73FB2A222J	CHIP R 2.2K	J 1/10W	R211,212			RK73FB2A104J	CHIP R 100K	J 1/10W
R64			RK73FB2A104J	CHIP R 100K	J 1/10W	K1			RK73FB2A472J	CHIP R 4.7K	J 1/10W
R65			RK73FB2A222J	CHIP R 2.2K	J 1/10W	R213			RK73FB2A222J	CHIP R 2.2K	J 1/10W
R68			RK73FB2A394J	CHIP R 390K	J 1/10W	R215			RK73FB2A104J	CHIP R 100K	J 1/10W
R69			RK73FB2A102J	CHIP R 1.0K	J 1/10W	R216			RK73FB2A473J	CHIP R 47K	J 1/10W
R71			RK73FB2A102J	CHIP R 1.0K	J 1/10W	R217			RK73FB2A103J	CHIP R 10K	J 1/10W
R72			RK73FB2A101J	CHIP R 100	J 1/10W	R227			RK73EB2B470J	CHIP R 47	J 1/8W
R73 ,74			RK73FB2A470J	CHIP R 47	J 1/10W	R228			RK73EB2B102J	CHIP R 1.0K	J 1/8W
R75			RK73FB2A101J	CHIP R 100	J 1/10W	R229			RK73EB2B222J	CHIP R 2.2K	J 1/8W
						R230			RK73EB2B4R7J	CHIP R 4.7	J 1/8W
						R231			RK73EB2B472J	CHIP R 4.7K	J 1/8W

K1 : KMD-71

M1 : KMD-870R

E1 : KMD-870R

▲ indicates safety critical components.

KMD-71/870R

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

ELECTRIC UNIT (X25-825X-XX)

DAUGHTER UNIT (X89-2282-72)

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on	Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
R232			RK73EB2B100J	CHIP R 10	J 1/8W	D81 -88		*	AM01Z	DIODE	
R233,234			RK73EB2B222J	CHIP R 2.2K	J 1/8W	IC1			UPD784215GF536	MI-COM IC	
R235			RK73EB2B470J	CHIP R 47	J 1/8W	IC2			TDA7461ND	ANALOGUE IC	
R236			RK73EB2B100J	CHIP R 10	J 1/8W	IC3			M5237ML	IC(VOLTAGE REGULATOR)	
R237			RK73EB2B470J	CHIP R 47	J 1/8W	IC4			TDA7386	ANALOGUE IC	
R238-240			RK73FB2A104J	CHIP R 100K	J 1/10W	IC6			LM2575HVS-5.0	ANALOGUE IC	
R250			RK73FB2A223J	CHIP R 22K	J 1/10W	IC7			PST9130NR	ANALOGUE IC	
R251			RK73EB2B102J	CHIP R 1.0K	J 1/8W	IC8			TC74HC02AF	IC	
R252			RK73FB2A223J	CHIP R 22K	J 1/10W	IC13			NJM4565M-TE2	ANALOGUE IC	E1M1
R253			RK73EB2B102J	CHIP R 1.0K	J 1/8W	IC14			TDA7479D	ANALOGUE IC	
R254			RK73FB2A104J	CHIP R 100K	J 1/10W	Q1			2SC2412K	TRANSISTOR	
R256			RK73FB2A272J	CHIP R 2.7K	J 1/10W	Q2			2SB1565F(E,F)	TRANSISTOR	
R258			RK73FB2A472J	CHIP R 4.7K	J 1/10W	Q3			DTA124EK	DIGITAL TRANSISTOR	
R259			RK73FB2A102J	CHIP R 1.0K	J 1/10W	Q4			DTC144EK	DIGITAL TRANSISTOR	
R260			RK73FB2A472J	CHIP R 4.7K	J 1/10W	Q5			2SB1565F(E,F)	TRANSISTOR	
R270			RK73FB2A823J	CHIP R 82K	J 1/10W	E1M1			DTA124EK	DIGITAL TRANSISTOR	
R271			RK73FB2A103J	CHIP R 10K	J 1/10W	E1M1			Q6 ,7	Q8	
R272			RK73FB2A104J	CHIP R 100K	J 1/10W	E1M1			2SD1760	TRANSISTOR	
R273,274			RK73FB2A103J	CHIP R 10K	J 1/10W	E1M1			2SA1036K	TRANSISTOR	
R275			RK73FB2A153J	CHIP R 15K	J 1/10W	E1M1			DTC144EK	DIGITAL TRANSISTOR	
R276,277			RK73FB2A103J	CHIP R 10K	J 1/10W	E1M1			2SB1277(Q,R)	TRANSISTOR	K1
R278			RK73FB2A562J	CHIP R 5.6K	J 1/10W	E1M1			DTC114YK	DIGITAL TRANSISTOR	K1
R279			RK73FB2A220J	CHIP R 22	J 1/10W	E1M1			2SB1277(Q,R)	TRANSISTOR	
R280			RK73FB2A563J	CHIP R 56K	J 1/10W	E1M1			2SA1037K	TRANSISTOR	
R281			RK73FB2A272J	CHIP R 2.7K	J 1/10W	E1M1			DTA124EK	DIGITAL TRANSISTOR	
R282,283			RK73FB2A103J	CHIP R 10K	J 1/10W	E1M1			Q21	Q22	
R284			RK73FB2A562J	CHIP R 5.6K	J 1/10W	E1M1			Q23	Q24	
R290-292			RK73FB2A222J	CHIP R 2.2K	J 1/10W	E1M1			Q25	Q26	
W1			R92-2052-05	CHIP R 0	J 1/10W	E1M1			Q27 ,28	Q31 ,32	
S1			S74-0808-05	MICRO SWITCH					Q40	Q41	
D1			S2V20*A	DIODE					Q42	Q43	
D2			AM01Z	DIODE					Q44	Q45	
D3			MA4056(N)-M	ZENER DIODE					Q46	Q47	
D4			U1GWJ44	DIODE					Q48	Q49	
D5			MA4110-L	ZENER DIODE					Q50	Q51	
D6			AM01Z	DIODE		K1			Q52	Q53	
D7			AM01Z	DIODE		E1M1			Q54	Q55	
D8			MA3047-M	ZENER DIODE		E1M1			Q56	Q57	
D9 ,10			AM01Z	DIODE		K1			Q58	Q59	
D10			AM01Z	DIODE		E1M1			Q60	Q61	
D11			1SS133	DIODE					Q62	Q63	
D12 ,13			MA4056(N)-M	ZENER DIODE					Q64	Q65	
D30			RD6.8MW	ZENER DIODE					Q66	Q67	
D31 -34			DA204K	DIODE					Q68	Q69	
D51 -53			DAP202K	DIODE					Q70	Q71	
D54			DA204K	DIODE					Q72	Q73	
D55			DAP202K	DIODE					Q74	Q75	
D56 -59			DAN202K	DIODE					Q76	Q77	
D60			DA204K	DIODE					Q78	Q79	
D61 -64			DAP202K	DIODE					Q80	Q81	
D65			MA3062-M	ZENER DIODE					Q82	Q83	
D68 ,69			MA3062WA	ZENER DIODE					TH1	TH2	
D70			DAN202K	DIODE					A1	W02-3125-05	K1
D80			DAN202K	DIODE		E1M1			A1	W02-3126-15	E1M1

DAUGHTER UNIT (X89-2282-72)

CN1	J1	E40-9596-05 E58-0865-05	SOCKET FOR PIN ASSY RECTANGULAR RECEPTACLE	
R1		RK73EB2B102J	CHIP R 1.0K	J 1/8W
R2		RK73EB2B241J	CHIP R 240	J 1/8W
R3		RK73EB2B102J	CHIP R 1.0K	J 1/8W
R4		RK73EB2B222J	CHIP R 2.2K	J 1/8W
R5 -8		RK73EB2B102J	CHIP R 1.0K	J 1/8W

K1 : KMD-71 M1 : KMD-870R E1 : KMD-870R

△ indicates safety critical components.

KMD-71/870R

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

DAUGHTER UNIT (X89-2282-72)

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
R9			RK73EB2B471J	CHIP R 470 J 1/8W	
R10			RK73EB2B102J	CHIP R 1.0K J 1/8W	
S1			S70-0841-05	TACT SWITCH	

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on

K1 : KMD-71 M1 : KMD-870R E1 : KMD-870R

△ indicates safety critical components.

KMD-71/870R

SPECIFICATIONS

KMD-71

FM tuner section

Frequency range (Frequency step)

.....	87.9MHz~107.9MHz (200kHz)
Channel space selection	50k/200kHz
Usable sensitivity (S/N=30dB)	9.3dBf (0.8μV/75Ω)
Quieting sensitivity (S/N=50dB)	15.2dBf (1.6μV/75Ω)
Frequency response (±3.0dB)	30Hz~15kHz
S/N (MONO)	70dB
Selectivity	≥ 80dB (±400kHz)
Stereo separation (1kHz)	40dB

AM tuner section

Frequency range (Frequency step)

.....	530kHz~1700kHz (10kHz)
Channel space selection	9kHz fix
Usable sensitivity (S/N=20dB)	28dBμ (25μV)

MD section

Laser diode	GaAlAs (λ =780nm)
Digital filter (D/A)	8 times over sampling
D/A converter	1 Bit
Frequency response	20Hz~20kHz (±2dB)
T.H.D.	0.01% (1kHz)
S/N (1kHz)	90dB
Dynamic range	90dB
Channel separation	85dB
Spindle speed	400rpm~900rpm (CLV)
Wow & Flutter	Below measurable limit

Audio section

Preout level (mV) /Load	1800mV/10kΩ
Preout impedance	≤ 600Ω
Maximum power	44Wx4
Rated power	22Wx4 (at less than 1%THD)
Tone action	
Bass	100Hz±10dB
Treble	10kHz±10dB

General

Operating voltage	14.4V (11V~16V allowable)
Current consumption	10A (at rated power)
Installation size (WxHxD)	182x53x160 (mm) 7-3/16x2-1/16x6-5/16 (inch)
Weight	4.0lbs (1.8kg)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

US and foreign patents licensed from Dolby Laboratories Licensing Corporation.

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo 150-8501 Japan

KENWOOD SERVICE CORPORATION

P.O. BOX 22745, 2201 East Dominguez Street, Long Beach, CA90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6, Plaza Chase, Cl. 47 y Aquilino de la Guardia, Panama,

Republic of Panama

KENWOOD ELECTRONICS BRASIL LTDA.

Av. Moema, 170-17^o, Andar-Cobertura "B", Ed. Maximum Service Center, 04077-020

Moema, São Paulo-SP-Brasil

KENWOOD ELECTRONICS UK LIMITED

Kenwood House, Dwight Road, Watford, Herts, WD1 8EB United Kingdom

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücke-Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13, Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS BELGIUM N.V.

Mechelsesteenweg 418, B-1930 Zaventem, Belgium

KMD-870R

FM tuner section

Frequency range (Frequency step)

.....	87.5MHz~108.0MHz (50kHz)
Channel space selection	50kHz fix
Usable sensitivity (S/N=26dB)	0.7μV/75Ω
Quieting sensitivity (S/N=46dB)	1.6μV/75Ω
Frequency response (±3.0dB)	30Hz~15kHz
S/N (MONO)	65dB
Selectivity (DIN)	≥ 80dB (±400kHz)
Stereo separation (1kHz)	35dB

MW tuner section

Frequency range (Frequency step)	531kHz~1611kHz (9kHz)
Channel space selection	9kHz fix
Usable sensitivity (S/N=20dB)	25μV

LW tuner section

Frequency range	153kHz~281kHz
Usable sensitivity (S/N=20dB)	45μV

MD section

Laser diode	GaAlAs (λ =780nm)
Digital filter (D/A)	8 times over sampling
D/A converter	1 Bit
Frequency response	20Hz~20kHz (±2dB)
T.H.D.	0.01% (1kHz)
S/N (1kHz)	90dB
Dynamic range	90dB
Channel separation	85dB
Spindle speed	400rpm~900rpm (CLV)
Wow & Flutter	Below measurable limit

Audio section

Preout level (mV) /Load	1800mV/10kΩ
Preout impedance	≤ 600Ω
Maximum power	44Wx4
Rated power	28Wx4 (DIN45324,+B=14.4V) M type 22Wx4 (at less than 1%THD)
Tone action	
Bass	100Hz±10dB
Treble	10kHz±10dB

General

Operating voltage	14.4V (11V~16V allowable)
Current consumption	10A (at rated power)
Installation size (WxHxD)	182x53x160 (mm) 7-3/16x2-1/16x6-5/16 (inch)
Weight	4.0lbs (1.8kg)

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori 7/9, 20129 Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 49 9 074)

8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37, Tower 1, Metropiazza, 223 Hing Fong Road, Kwai Fong, N.T., Hong Kong

KENWOOD ELECTRONICS GULF FZE

P.O. Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS (THAILAND) CO., LTD.

2019 New Pechburi Road, Bangkok, Thailand

KENWOOD ELECTRONICS SINGAPORE PTE. LTD.

1 Genting Lane #07-01, Kenwood Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD

#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1, 46300 Petaling Jaya, Selangor Darul Ehsan, Malaysia